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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Entomology and Plant Quarantine
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February 15, 1946

Results of the trap-scouting performed during the summer of 1945 to secure information on the distribution and possible status of the Japanese beetle in localities outside the area regulated by Federal quarantine are summarized in the attached statement. This includes a list of all localities outside the regulated area where trap-scouting was carried on with positive results during the seasons 1936 to 1945, inclusive, with the respective catches, together with a list of localities where soil treatments have been applied at isolated infestations from 1943 to date.

Acreages to which soil treatments were applied in 1945 were much reduced from those of the past few years, coinciding with a general reduction in beetle population due to unfavorable conditions for grub survival in 1944. Soil treatments completed, plus additional acreages to be completed in two Virginia communities in the spring of 1946, total 555.25 acres. These treatments were carried out with the cooperation of the interested States and municipalities. They are attempts to eradicate outlying incipient infestations or, if eradication is impracticable, to suppress the infestations so that they do not become new centers of spread. This type of treatment involves the application of lead arsenate at a dosage of 500 pounds per acre. Treatment is recommended within a radius of 300 feet of all collections of female beetles or multiple finds of either sex. Usually treatment is not applied in sections where solitary male beetles are captured, such areas being reserved for trapping the following season more accurately to determine the conditions of infestation. Extensive experimental soil treatments with DDT were also undertaken at Blowing Rock, N. C.

Suppressive measures already applied or assured for the spring of 1946 in localities outside the regulated area, together with State quarantine action in certain outlying areas, will, in most instances, assure protection from spread at least comparable with that afforded if the Federal quarantine were extended. Immediate additions to the area regulated under the Federal Japanese beetle quarantine as a result of the season's trapping and survey records, therefore, will probably be limited to a single election district in Allegany County, Md.; the township of Madison, Licking County, and township of Marion, Franklin County, Ohio; and the town of Shenandoah, Va.

The necessity of holding a hearing or conference to consider the extension of the regulated area or modification of the regulations, prior to a revision of the quarantine regulations, can be avoided. It is expected that a revision of the regulations will be issued in the near future.

The accompanying report is similar to any report on current conditions that might be presented at a public conference. It is issued to make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Federal quarantine and to acquaint them with the proposed revision of the regulations.

P. N. Annand
Chief of Bureau

Attachments - 3



REPORT OF RESULTS OF JAPANESE BEETLE TRAPPING
AND CONTROL OPERATIONS DURING 1945

More widespread than in any previous year, the 1945 Japanese beetle trapping program extended to 698 localities in 35 States. Total traps used during the year was 56,377, some 10,000 fewer than the previous year. However, the coverage was a considerable increase over the 462 localities trapped in 1944. Beetles were caught in 96 cities and towns. Of these, 35 were first-record collections. At 56 localities the number of beetles collected were few, and the conditions are of such a nature that there is no hazard of spread through movement of products into other sections. No action in reference to these localities is contemplated at this time. At the remaining 40 localities control or regulatory action is needed. At 33 of the 40 localities soil treatment has already been applied. The remaining 7 will be either under state quarantine or federal quarantine, or the soil treatment will be applied in the spring of 1946.

Lack of rainfall in the summer of 1944 resulted in a rather general reduction in beetles caught during 1945 at isolated infestations where combination trapping-soil treating programs have been depended upon to keep the beetle in check. This same condition existed in the continuously infested area, where a marked drop in beetle populations occurred, except in a few places where 1944 precipitation was near normal.

Cooperation of officials of the Army, Navy and many municipalities was enlisted in a nation-wide precautionary airport trapping program. This embraced all airports outside the infested area considered of major importance as possible destinations for accidental carriage of adult beetles by plane. This airport scouting extended to 107 airports in 28 States. Batteries of 24 traps each were set up along boundaries of the airfields for approximately six weeks' operation.

Solitary beetles each were caught in traps set at the New Orleans, La. airport; Hunter Field airport, Savannah, Ga.; and the Huntington, W. Va. airport at Chesapeake, Ohio. Two beetles each were recovered at the Charlotte, N. C. and Memphis, Tenn. airports, while three beetles were trapped at the Charlestown, S. C. municipal airport. Evidence in each case indicated that these specimens were hitch-hiking beetles transported to new environments by airplane movement.

State-Federal cooperative soil treatments of important isolated infestations were continued by the States of Georgia, Illinois, Indiana, Michigan, Missouri, New York, North Carolina, Ohio, and Virginia. These again involved the application of lead arsenate at the rate of 500 pounds per acre within a radius of approximately 300 feet of significant beetle finds. A few of the infestations were of such an extent that soil treating was not considered practicable. Quarantine action is contemplated in these instances.

Soil treatments were completed in July at Atlanta and Dahlonega, Georgia, to control infestations of 13 and 37 beetles, respectively. Acreages involved were 4.6 in Atlanta and 2.7 at the Dahlonega first-record. The only other captures in the State were limited to solitary beetles each at Augusta, Austell, Toccoa and the Army Air Base at Hunter Field, Savannah.

Contrasted with the 708 beetles trapped in Chicago in 1944, this year's capture of 164 showed an improved situation there. Cooperative soil treatments this year covered 62.45 acres. The only other beetles captured in Illinois were 5 at Highland Park and one at East St. Louis.

Fewer beetles were trapped in Indianapolis, Ind. than in any year since the first beetles were caught there in 1934. The season's collection was limited to 3 specimens. Another beetle was captured at Whiting, Ind. At Elkhart, where 21 beetles were caught, 19.2 acres received soil treatment.

A solitary beetle trapped in a residential section of Kansas City, Kansas constitutes a first-record for that State.

Traps set in a number of communities outside the Maryland regulated area, in conjunction with the State-Federal control program, turned up a sizeable first-record infestation in Oldtown, Allegany County, as well as smaller recurring infestations in Bloomington, Mechanicsville and Oakland.

With the exception of the infestations of 6 beetles at Ecorse and a solitary beetle at Melvindale, all infestations found in Michigan this year have received soil treatments. Areas treated in Detroit (24 beetles), Grand Rapids (166), Kalamazoo (63), Muskegon (7), and River Rouge (278), were 25.05, 80, 29.9, 10.1, and 32.05 acres, respectively.

At St. Louis, Mo., the infestation was again at a minimum, with only 7 beetles caught. The section of 7.7 acres involved received soil treatment.

Minor infestations of a few beetles each were found at Batavia, Falconer, Gardenville, Jamestown, Mexico, Phoenix, Plattsburg, Silver Creek and Westfield, in New York. Soil treatments were applied to 8.3 acres where 7 beetles were trapped at Jamestown. Likewise, soil treatments of 7 acres and 25.65 acres, respectively, were made at Fairport, a first-record infestation of 54 beetles, and Geneva, where 94 beetles were collected. In addition, 21.5 acres were treated in Niagara Falls on the basis of the 1944 trapping there. Forty-six beetles were trapped in Waterloo, but 32 of these were collected in blocks where soil treatments were applied in the spring and fall of 1943. Further treating is under consideration in this locality.

Of the 20 North Carolina cities and towns in which beetles were trapped this year, six received prompt soil treatment for control. Localities treated, with beetles caught and acreages covered, were as follows: Durham, 47 beetles - 13.2 acres; Rocky Mount, 5 - 2.4; Salisbury, 29 - 13; Spencer, 41 - 6.9; Wilson, 8 - 2.7; and Winston-Salem, 7 - 6.4. Twelve of the remaining infestations were from 1 to 6 beetles each. East Spencer, with 32 beetles, was the only important infestation that did not receive soil treatment. This locality is already in the State quarantined area. At the Blowing Rock established infestation, 250 acres were experimentally treated with the new insecticide DDT. Traps operated during the summer in this State quarantined area caught 42,271 beetles, about one-third of the previous year's catch.

Ohio did a complete soil treating job of all infestations determined outside the regulated area of the State, except at four localities showing solitary beetles only; at Belpre, where the 32 beetles trapped were within the confines of the already treated area; and at two established infestations found by nursery scouts adjacent to the Columbus and Newark isolated regulated areas. Addition of these latter two townships to the regulated areas is anticipated. A total of 132.55 acres received soil treatments in Bellevue, Crestline, Elyria, Gallipolis, Geneva, Lorain, Loudonville, New Concord, Painesville and adjacent Lake County area, and Willard.

A solitary beetle at Columbia, 25 beetles at Greenville, and the already mentioned three beetles at Charleston municipal airport comprise the South Carolina catches this year. The State purchased lead arsenate with which to treat 15 acres at the Greenville infestation, but has been prevented from applying it because of labor difficulties. Due to the erratic behavior of the Greenville infestation from year to year, soil treatment may be held in abeyance pending a trap resurvey there in 1946.

A stray beetle trapped in Barre, Vt. was the only positive result of trapping in that State.

Most important of the 15 infestations determined in Virginia this year was that at Shenandoah, where 1,656 beetles were trapped for a first-record in this locality. Soil treatments are not contemplated here, and it is under consideration for quarantine extension. Soil treatments were completed at Alta Vista and Wytheville, first-record infestations of 9 and 4 beetles each, with respective applications to 7.7 and 4.2 acres. Treatment of 12 acres at Clifton Forge (16 beetles) and 18 acres at Covington (83 beetles) is assured in the spring of 1946. In addition, minor infestations in which trap-control will be continued were found at Ashland, Beauford, Bridgewater, Dayton, Galax, Harrisonburg, Hopewell, Midlothian, Lynchburg, and Rocky Mount.

Trap collections in West Virginia were limited to 3 beetles at Gassaway, an initial report, and 5 beetles in Huntington. Neither locality requires soil treatment at this time.

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1936 - 1945

POSITIVE RESULTS

LOCATION	1945		1944		1943		1942		1941		1940		1939		1938		1937		1936	
	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.
FLORIDA																				
Jacksonville	875	0	625	5	12	0	295	1	600	0	600	5	-	-	-	-	792	0	-	-
Miami	24	0	900	0	16	0	300	1	300	0	600	12	-	-	-	-	178	0	-	-
Tampa	24	0	600	0	-	-	300	0	600	0	600	1	-	-	-	-	796	0	-	-
GEORGIA																				
Atlanta	700	13	1000	17	1000	8	1025	4	2369	24	3109	32	3200	40	3033	122	1487	6	396	0
Augusta	297	1	300	9	292	11	300	5	-	-	-	-	400	0	-	-	392	0	392	1
Austell	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chamblee	-	-	25	0	25	0	25	0	64	2	50	17	-	-	-	-	-	-	-	-
Dahlonega	15	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East Point	100	0	100	3	100	5	100	4	350	7	440	137	400	142	-	-	-	-	-	-
Gainesville	51	0	-	-	-	-	100	-	300	1	200	2	-	-	-	-	-	-	-	-
Jonesboro	-	-	-	-	-	-	-	-	-	-	83	0	60	0	15	3	-	-	-	-
Savannah	-	-	300	0	-	-	297	0	-	-	12	0	298	0	12	1	800	0	395	1
Savannah Airport (Hunter Field)	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toccoa	100	1	92	17	100	21	50	3	100	0	123	2	92	0	-	-	100	0	-	-
ILLINOIS																				
Bloomington	-	-	50	0	-	-	200	1	300	1	-	-	-	-	-	-	395	0	-	-
Chicago	9450	164	9500	708	5738	257	7550	170	9200	407	10000	462	9838	549	9926	330	9980	384	7500	3740
Cicero	-	-	250	3	300	1	-	-	400	0	800	0	800	2	800	5	400	1	-	-
East St. Louis	275	1	300	3	300	16	599	1	600	10	600	5	800	24	800	1	1234	3	1102	2
Elgin	-	-	50	0	-	-	-	-	300	0	-	-	-	-	-	-	385	0	-	-
Evanston	400	0	-	-	-	-	400	0	400	0	800	0	800	16	600	1	400	20	-	-
Highland Park	700	5	500	10	400	63	600	173	1100	5608	-	-	-	-	200	0	-	-	-	-
Highwood	-	-	-	-	100	0	200	1	-	-	-	-	-	-	-	-	-	-	-	-
Oak Park	-	-	250	0	300	1	-	-	300	0	300	1	-	-	600	0	800	0	-	-
INDIANA																				
Bedford	-	-	50	0	-	-	99	0	240	1	-	-	-	-	-	-	-	-	-	-
Bluffton	-	-	-	-	-	-	-	-	-	-	250	-	300	3	-	-	-	-	-	-
East Chicago	300	0	-	-	-	-	-	-	-	-	-	-	300	0	300	1	400	0	-	-
Elkhart	300	21	390	35	415	9	289	6	392	3	299	77	316	5	300	2	-	-	-	-
Fort Wayne	-	-	615	96	555	8	596	4	1236	5	1200	52	1600	105	1600	20	800	18	399	5
Hammond	134	0	299	54	200	24	400	8	324	3	300	0	50	3	400	0	400	0	-	-
Indianapolis	763	3	1000	20	965	32	1195	7	2514	21	2700	160	3280	76	3600	10	3500	12	3500	28
Logansport	50	0	300	7	300	7	300	9	317	5	313	13	400	98	400	8	300	1	-	-
Luncie	-	-	50	1	-	-	-	-	195	0	-	-	400	1	-	-	400	0	-	-
Newcastle	300	0	-	-	-	-	200	0	200	0	200	2	-	-	-	-	-	-	-	-
Richmond	-	-	300	4	300	17	298	556	327	4	300	4	400	1	-	-	400	0	398	0
South Bend	599	0	-	-	-	-	400	1	1126	18	1200	12	1600	0	1600	8	800	43	400	3
Terre Haute	-	-	300	0	-	-	400	1	430	18	-	-	-	-	-	-	-	-	397	0
Warsaw	200	0	-	-	-	-	100	0	195	2	194	60	300	2	-	-	-	-	-	-
Whiting	157	1	-	-	100	0	400	0	300	1	300	4	250	18	100	1	200	0	-	-
IOWA																				
Ft. Madison	-	-	-	-	-	-	-	-	-	-	-	-	200	0	200	1	-	-	-	-
KANSAS																				
Kansas City	137	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	0	400	0
KENTUCKY																				
Lexington	200	0	-	-	-	-	274	0	-	-	-	4	600	0	597	1	391	1	400	1
Louisville	572	0	-	-	-	-	590	1	1223	1	1200	4	1600	13	1566	62	800	10	800	2
LOUISIANA																				
New Orleans Airport	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAINE																				
Bangor	-	-	-	-	-	-	-	-	-	-	325	9	400	5	260	3	-	-	301	0
Bar Harbor	-	-	-	-	-	-	-	-	-	-	95	4	-	-	100	0	-	-	172	0
Bath	-	-	-	-	-	-	-	-	-	-	-	-	150	0	200	2	-	-	175	0
Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	175	0	200	1	-	-	71	0
Ellsworth	-	-	-	-	-	-	-	-	-	-	115	0	100	0	100	1	-	-	125	0
MARYLAND																				
Bloomington	10	15	10	11	-	-	-	0	15	1	-	-	-	-	-	-	-	-	-	-
Chaptico	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Leonardtown	-	-	109	0	85	1	131	5	100	7	225	4	-	1	192	0	10	0	20	0
Mechanicsville	40	8	44	4	41	7	68	5	-	-	-	-	-	-	50	2	10	0	10	0
Oakland	30	1	30	2	30	7	-	-	-	-	-	-	25	-	-	-	30	0	-	-
Oldtown	40	3667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MICHIGAN																				
Birmingham	-	-	200	0	200	0	161	5	200	2	200	0	200	6	-	-	-	-	-	-
Dearborn	200	0	300	0	300	0	366	1	400	5	400	0	400	5	780	1	796	6	398	1
Detroit	4100	24	4000	95	3580	86	5056	32	7000	225	6000	252	5250	115	5313	82	5045	67	4686	128
Ecorse	200	6	-	-	-	-	-	-	-	-	-	-	-	-	200	0	-	-	-	-
Flint	700	0	700	11	704	37	197	80	-	-	-	-	-	-	-	-	-	-	-	-
Grand Rapids	278	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grosse Point Farms	-	-	-	-	-	-	-	-	100	0	200	0	25	5	-	-	-	-	-	-
Highland Park	-	-	-	-	-	-	-	-	-	-	-	-	400	0	200	2	200	0	400	0
Kalamazoo	112	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lincoln Park	-	-	-	-	100	0	89	2	-	-	-	-	-	-	-	-	-	-	-	-
Melvindale	100	1	100	0	100	1	100	4	100	2	100	1	200	5	-	-	-	-	-	-
Muskegon	110	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pontiac	200	0	-	-	-	-	-	179	0	-	-	-	200	0	50	1	398	0	-	-
River Rouge	300	278	200	42	200	24	100	1	-	-	-	-	-	-	200	0	-	-	-	-
MISSOURI																				
Bridgeton (St. Louis-Lambert Field)	15	0	20	0	19	0	77	1	108	3	51	1	-	-	-	-	-	-	-	-
Kansas City	473	0	10	1	12	0	12	0	10168	15	12299	30	12230	26	12500	27	12557	1	11562	88
St. Louis	3516	7	4792	4	2379	14	7921	6	10168	15	12299	30	12230	26	12500	27	12557	1	11562	88

* First record

JAPANESE BEETLE TRAPPING
1926 - 1945

LOCATION	1945 Traps J. B.	1944 Traps J. B.	1943 Traps J. B.	1942 Traps J. B.	1941 Traps J. B.	1940 Traps J. B.	1939 Traps J. B.	1938 Traps J. B.	1937 Traps J. B.	1936 Traps J. B.
NEW YORK										
Albion	60	0	-	-	-	30	0	-	-	-
Alexandria Bay	-	-	25	-	99	0	100	1	-	-
Avon	-	-	80	-	100	25	18	-	-	-
Batavia	206	2	100	-	100	0	-	-	-	-
Beth	-	-	-	97	37	100	196	25	18	-
Canandaigua	-	-	200	4	298	4	200	0	-	-
Chestertown	-	-	50	2	-	100	2	-	-	-
Dansville	50	0	-	200	0	194	0	200	1	300
Dundee	-	-	-	-	-	-	-	-	-	-
Dunkirk	200	0	100	1	200	11	300	3	-	-
*Fairport	60	54	-	-	-	-	-	-	-	-
*Falconer	50	10	-	-	-	-	-	-	-	-
*Gardenville	15	1	-	-	-	-	-	-	-	-
Geneva	100	94	200	197	196	37	200	9	199	4
Hammondsport	-	-	-	-	-	-	-	-	-	-
Jamestown	400	7	400	31	500	154	597	98	-	-
Keseeville	20	0	-	100	0	101	1	-	-	-
Lake George	-	-	100	1	-	79	0	-	-	-
Lockport	-	-	-	200	0	0	200	0	-	-
Lowville	40	0	-	100	0	77	1	-	-	-
Lyons	-	-	50	0	200	1	200	1	40	0
Malone	-	-	-	192	0	200	1	200	1	12
Massena	-	-	50	0	-	-	-	-	-	-
Mayville	15	0	-	-	-	-	-	-	-	-
Medina	60	0	100	2	300	2	-	-	-	-
*Mexico	15	5	-	-	-	-	-	-	-	-
Newark	-	-	200	7	200	1	300	65	299	44
Niagara Falls	-	-	394	20	500	71	600	216	320	510
North Tonawanda	-	-	200	22	279	7	300	4	-	-
Ogdensburg	-	-	100	0	200	315	198	14	300	15
Palmyra	-	-	107	0	391	0	100	0	30	1
Penn Yan	-	-	-	99	0	100	3	-	-	-
*Phoenix	20	3	-	-	-	-	-	-	-	-
Plattsburg	200	0	300	0	282	5	242	14	301	4
Port Henry	25	0	100	1	-	-	-	-	-	-
Rouses Point	-	-	-	100	0	100	5	-	-	-
Schroon Lake	-	-	50	2	-	-	-	-	-	-
Seneca Falls	-	-	-	-	-	-	-	-	-	-
Silver Creek	100	2	100	7	100	60	200	104	-	-
Springlake	-	-	15	1	-	-	-	-	-	-
Ticonderoga	40	0	100	2	-	-	-	-	-	-
Waterloo	115	46	200	18	197	171	100	33	-	-
Westfield	50	2	100	2	192	27	-	-	-	-
Williamson	-	-	100	31	-	-	-	-	-	-
NORTH CAROLINA										
*Archdale	10	6	-	-	-	-	-	-	-	-
*Asheboro	70	1	-	-	-	-	-	-	-	-
Asheville	-	-	1000	36128	38	75503	42	89245	910	90419
Azalea	-	-	24	2	-	-	-	-	-	-
Black Mountain	25	0	24	3	-	-	-	-	-	-
Blowing Rock	487	42271	453	13945	100	17405	-	-	-	-
Boone	-	-	100	3	-	-	-	-	-	-
Burgaw	25	0	24	22	-	-	-	-	-	-
Burlington	188	5	-	-	100	0	200	3	300	62
Calypso	-	-	5	1	-	-	-	-	-	-
*Candler	23	1	-	-	-	-	-	-	-	-
Canton	25	1	94	3	-	-	-	-	-	-
Charlotte	275	3	-	-	500	5	594	25	600	12
Charlotte Airport	25	2	-	-	-	-	-	-	-	-
Clinton	-	-	25	5	-	-	-	-	-	-
Columbia	-	-	24	1	-	-	-	-	-	-
Dunn	-	-	50	222	-	-	-	-	-	-
Durham	275	47	50	300	2	600	5	598	27	600
East Flat Rock	-	-	9	2	-	-	-	-	-	-
East Spencer	25	32	50	11	100	127	100	83	238	349
Elizabeth City	-	-	156	72	100	38	199	31	300	53
Fayetteville	-	-	50	1	184	0	280	7	-	-
Flat Rock	-	-	6	1	-	-	-	-	-	-
Gastonia	-	-	291	60	300	52	200	106	-	-
Goldsboro	299	0	389	3	500	19	600	19	900	98
Greensboro	-	-	100	1	100	4	200	3	-	-
Hamlet	-	-	568	20000	195	785	100	1718	5	-
Hendersonville	-	-	100	2	-	-	-	-	-	-
Hickory	-	-	199	26	300	9	398	18	597	84
High Point	65	1	50	0	-	-	-	-	-	-
*Kannapolis	15	3	-	-	-	-	-	-	-	-
Kinston	-	-	88	4	-	-	-	-	-	-
*Landis	15	0	100	1	-	-	-	-	-	-
Lenoir	-	-	100	2	-	-	-	-	-	-
Lexington	25	0	-	-	100	0	197	4	200	8
Marshall	25	1	-	-	-	-	-	-	-	-
*Mooresville	15	4	25	2	-	-	-	-	-	-
N. Olive	-	-	85	1	-	-	-	-	-	-
North Wilkesboro	-	-	23	-	-	-	-	-	-	-
Old Fort	-	-	35	-	-	-	-	-	-	-
Oteen	-	-	400	35	500	17	593	46	599	68
Raleigh	-	-	189	2	200	19	100	16	301	26
Reidsville	-	-	-	-	200	14	193	16	300	232
Rocky Mount	277	5	-	-	200	58	215	29	300	0
Salisbury	150	29	200	88	200	4	100	0	100	11
Saurora	-	-	-	-	-	-	-	-	-	-
Spencer	25	41	45	63	100	4	101	0	246	52
Spruce Pine	-	-	75	6	-	-	-	-	-	-
Statesville	-	-	50	0	198	1	-	-	-	-
*Swannanoa	20	1	-	-	-	-	-	-	-	-
Tarboro	60	0	-	-	-	-	-	-	-	-
Thomasville	-	-	-	-	100	0	107	1	-	-
Warsaw	-	-	25	10	-	-	-	-	-	-
Wassington	-	-	40	2	-	-	-	-	-	-
Waynesville	-	-	90	0	98	0	50	1	-	-
Weldon	185	0	-	-	100	0	98	9	97	13
West Jefferson	-	-	75	13	-	-	-	-	-	-
Wilmington	93	0	150	3	270	38	497	18	600	52
Wilson	290	8	200	3	200	12	200	11	198	8
Winston-Salem	293	7	-	-	402	4	595	23	1195	97

* First Record

JAPANESE BEETLE TRAPPING
1936 - 1945

LOCATION	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936
	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.	Traps J. B.
OHIO										
Ashtland	200	1	200	23	-	199	0	65	0	50
Athens	-	-	-	-	100	-	-	198	-	-
Bellevue	300	84	300	39	300	135	125	218	-	-
Belpre	100	32	100	82	100	72	100	66	100	94
Bucyrus	-	-	-	-	100	0	100	200	5	102
Caldwell	-	-	50	0	100	1	98	0	200	191
Chillicothe	300	0	-	-	200	0	297	1	25	0
Cincinnati (City)	600	0	-	-	-	-	-	-	-	-
Cincinnati (Lunken Airport)	78	0	99	5	100	6	100	877	0	-
Crestline	200	11	200	27	200	24	100	31	1	-
Elyria	200	8	193	7	200	2	200	0	300	1
Fostoria	-	-	200	0	200	1	-	-	299	1
Fowlers Mills	-	-	50	0	15	2	-	-	300	0
Gallipolis	396	40	300	12	300	329	295	2520	200	444
Geneva	97	54	-	-	-	-	-	-	-	200
Hamilton	25	1	-	-	-	-	-	-	-	769
Huntington (W. Va.) Airport	-	-	-	-	-	-	-	-	-	200
Lima	-	-	200	0	200	1	-	-	-	-
Lorain	200	2	200	9	200	7	296	2	-	300
Loudonville	20	3	-	-	-	-	-	-	-	0
Marion	301	0	300	17	200	50	300	28	-	32
Millersburg	20	0	-	-	-	-	100	-	1	0
Mount Vernon	200	0	-	-	200	0	200	5	42	0
Nelsonville	-	-	50	0	100	1	98	3	0	171
New Concord	100	26	100	30	100	19	97	6	25	1
Norwalk	-	-	-	-	-	-	200	1	55	0
Palmsville (Lake County)	-	11	-	7	-	-	-	-	0	100
Rockbridge	-	-	50	1	40	34	35	167	-	-
Sandusky	-	-	200	0	200	2	199	0	-	-
Shelby	-	-	100	4	100	29	100	318	175	1076
South Zanesville	46	4	100	1	-	-	-	-	-	-
Springfield	293	1	-	-	-	-	-	-	-	-
Tiffin	-	-	-	200	0	300	1	296	0	-
Van Wert	97	0	199	1	-	100	0	321	1	-
Washington C. H.	70	0	-	-	100	0	-	-	-	-
Wellington	-	-	50	1	100	0	99	0	20	0
Willard	96	5	100	3	100	1	-	-	20	0
Zanesville	254	0	300	1	200	4	200	5	298	1
PENNSYLVANIA										
Greenville	-	-	-	-	300	14	-	-	300	5
SOUTH CAROLINA										
Charleston	-	-	23	0	25	2	255	1	300	5
Charleston Municipal Airport	24	3	-	-	-	-	-	-	-	300
Columbia	300	1	-	-	300	0	399	1	-	-
Florence	-	-	200	2	200	76	100	43	200	7
Greenville	580	25	400	47	600	20	300	16	296	18
Spartanburg	285	0	50	0	300	1	300	1	300	1
Sumter	-	-	-	-	200	0	200	1	-	-
TENNESSEE										
Bristol	-	-	150	1	100	5	131	2	-	-
Kingsport	300	0	183	5	-	-	-	-	-	-
Memphis Airport	25	2	-	-	-	-	-	-	-	-
Mountain City	-	-	105	6	-	-	-	-	-	-
VERMONT										
Barre	191	1	-	-	197	0	192	17	293	21
Richmond	-	-	50	1	-	-	-	-	-	-
VIRGINIA										
Altavista	30	9	-	-	-	-	-	-	-	-
Ashland	25	1	-	-	-	-	-	-	-	-
Bedford	40	0	-	-	-	-	-	-	-	-
Berryville	30	0	-	-	-	-	-	100	9	100
Bridgewater	15	1	-	-	-	-	-	8	0	-
Bristol	-	-	150	2	100	24	147	7	-	-
Buena-Vista	-	-	25	0	-	-	-	-	-	200
Clifton Forge	75	16	-	-	-	-	-	-	-	0
Columbia	-	-	-	-	-	-	10	1	-	-
Courtland (Southampton Co.)	-	-	-	-	-	-	-	5	0	20
Covington	60	83	-	-	-	-	-	-	-	1
Dayton	15	4	-	-	-	-	20	10	-	-
Franklin (Southampton Co.)	-	-	-	-	-	-	100	0	35	1
Galax	30	1	-	-	-	-	-	-	43	0
Harrisonburg	200	2	100	11	200	22	100	18	40	4
Hopewell	85	1	-	-	-	-	-	-	200	5
Lexington	-	-	100	0	100	23	-	-	-	-
Luray	-	-	25	0	100	3	95	7	20	1
Lynchburg	300	15	300	5	200	25	-	-	300	0
Midlothian	-	4	-	-	-	-	-	-	-	10
Midford	-	-	-	-	-	-	12	1	-	-
Mineral	-	-	-	-	-	-	45	1	10	1
St. Jackson	15	0	-	-	-	-	45	2	14	1
New Market	-	-	25	0	-	-	-	-	20	0
Rappahannock Academy	-	-	-	-	-	-	-	-	-	18
Rocky Mount	10	2	-	-	-	-	87	3	-	-
Salem	-	-	50	0	-	-	-	-	-	-
Shenandoah	150	1656	-	-	-	-	-	-	-	-
South Hill	-	-	-	-	-	-	92	0	10	0
Staunton	-	-	100	0	200	6	-	-	24	0
Stephens City	15	0	-	-	-	-	-	-	5	0
Strasburg	20	0	-	-	-	-	-	-	13	0
Timberville	-	-	-	-	-	-	-	-	-	20
Unionville	-	-	-	-	-	-	-	-	-	1
Warsaw	-	-	100	0	-	-	-	-	-	20
Waynesboro	-	-	100	0	200	10	-	-	-	0
Williamsburg	-	-	100	0	100	1	160	7	-	-
Woodstock	-	-	50	0	100	19	97	67	9	-
Wytheville	45	4	-	-	-	-	-	-	-	-

* First record

JAPANESE BEETLE TRAPPING
1936 - 1945

LOCATION	1945		1944		1943		1942		1941		1940		1939		1938		1937		1936	
	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.	Traps	J. B.
WEST VIRGINIA																				
Beckley	-	-	-	-	100	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluefield	-	-	-	-	100	9	-	-	-	-	-	-	-	-	-	-	-	-	285	0
Elkins	-	-	-	-	-	-	99	3	-	-	-	-	70	2	-	-	125	0	-	-
*Gassaway	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Huntington	298	5	-	-	200	4	-	-	-	-	-	-	-	-	593	0	796	2	400	2
Pennsboro	-	-	-	-	-	-	98	9	19	4	-	-	-	-	-	-	-	-	-	-
Princeton	-	-	-	-	100	21	100	11	-	-	-	-	-	-	-	-	100	2	97	4
St. Albans	40	0	100	0	-	8	23	1	-	-	-	-	-	-	-	-	-	-	-	-
St. Marys	-	-	-	-	100	-	-	-	30	0	25	1	-	-	40	0	-	-	-	-
Williamstown	-	-	-	-	100	19	-	-	-	-	-	-	-	-	30	0	12	0	-	-

* First record

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1943 - 1946

State and City	Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 and Spring 1944 (Acres)	Japanese Beetles Trapped 1944 (Number)	Soil Treatments Fall 1944 and Spring 1945 (Acres)	Japanese Beetles Trapped 1945 (Number)	Soil Treatments Fall 1945 or Proposed for Spring 1946 (Acres)
FLORIDA						
Jacksonville	0	-	5	7.5	0	-
GEORGIA						
Atlanta	8	2.5	17	1.35	13	4.6
Augusta	11	1.5	9	-	1	-
Dahlonega	-	-	-	-	37	2.7
Toccoa	21	1.5	17	1.35	1	-
ILLINOIS						
Chicago	257	139.3	708	223.25	164	62.45
East St. Louis	16	9.5	2	-	1	-
Highland Park	63	28.2	10	-	5	-
INDIANA						
Elkhart	9	-	35	37.6	21	19.2
Fort Wayne	8	-	96	71.55	0	-
Hammond	24	32.6	54	56.15	0	-
Indianapolis	32	14.57	20	23.4	0	-
Logansport	7	-	7	4.3	0	-
Richmond	17	20.35	4	-	-	-
MICHIGAN						
Birmingham	0	-	0	-	0	-
Dearborn	2	-	2	-	0	-
Detroit	86	90.0	95	48.3	24	25.05
Flint	37	37.7	11	8.3	0	-
Grand Rapids	-	-	-	-	166	80.0
Kalamazoo	-	-	-	-	63	29.9
Lincoln Park	0	-	-	-	-	-
Melvindale	1	-	0	-	1	-
Muskegon	-	-	-	-	7	10.1
River Rouge	24	20.8	42	32.6	278	32.05
MISSOURI						
Kansas City (Airport)	-	-	1	1.58	-	-
St. Louis	14	13.0	4	1.91	7	7.7
NEW YORK						
Avon	37	-	0	-	54	7.0
Fairport	-	-	-	-	10	-
Falconer	-	-	-	-	94	25.65
Geneva	37	23.1	197	44.0	7	8.3
Jamestown	154	5.7	31	-	-	-
Newark	1	-	7	11.33	-	-
Niagara Falls	71	16.0	20	-	-	21.5
North Tonawanda	7	-	22	-	-	-
Ogdensburg	315	6.0	-	-	3	-
Phoenix	-	-	-	-	9	-
Plattsburg	-	-	9	-	9	-
Silver Creek	60	6.8	7	-	3	-
Waterloo	171	7.0	18	-	46	-
Westfield	27	8.5	2	-	2	-
Williamson	0	-	31	10.5	-	-
NORTH CAROLINA						
Blowing Rock	17405	25.0	138945	-	42271	DDT
Burgaw	-	-	22	8.8	3	-
Charlotte	5	-	-	-	3	-
Dunn	-	-	222	35.3	-	-
Durham	2	-	-	-	47	13.2
Elizabeth City	38	6.1	72	3.7	-	-
Gastonia	52	9.3	60	15.4	-	-
Greensboro	19	6.9	8	-	-	-
Hendersonville	785	75.6	20000	-	-	-
High Point	9	-	26	10.6	-	-
Lenoir	-	-	4	3.0	-	-
Lexington	-	-	2	1.2	-	-
Raleigh	13	-	35	8.1	-	-
Reidsville	19	5.2	2	-	-	2.4
Rocky Mount	14	-	-	-	3	12.0
Salisbury	58	8.8	88	9.3	41	6.9
Spencer	4	-	63	6.0	-	-
Spruce Pine	-	-	6	2.3	-	-
Warsaw	-	-	10	4.3	-	-
Weldon	0	-	-	-	0	-
West Jefferson	-	-	13	-	0	-
Wilmington	38	3.2	3	-	8	2.7
Wilson	12	-	3	-	7	6.4
Winston-Salem	4	-	-	-	-	-
OHIO						
Ashland	-	-	23	21.7	1	-
Ashtabula	160	42.8	203	32.7	84	28.5
Bellevue	135	16.4	39	31.12	32	-
Belpre	72	3.3	0	-	0	-
Caldwell	1	-	-	-	0	-
Chillicothe	0	-	-	-	0	-
Cincinnati (Lunken Airport)	6	10.0	5	10.2	0	-
Conneaut	34	16.3	20	-	-	-
Crestline	24	16.4	27	52.7	11	7.7
East Conneaut	19	1.9	5	14.0	8	20.4
Elyria	-	-	1	-	-	-
Fostoria	2	2.8	-	-	-	-
Fowlers Mills	1	1.8	-	-	40	8.7
Gallipolis	329	3.3	12	23.18	54	7.9
Geneva	-	-	8	5.8	-	-
Lima	1	4.6	9	17.5	3	2.1
Lorain	7	10.5	9	-	3	3.15
Loudonville	434	22.8	223	-	0	-
Marletta	50	36.8	17	34.1	0	-
Marion	0	-	-	-	0	-
Mt. Vernon	1	-	0	-	-	-
Nelsonville	19	27.6	30	18.0	26	11.1
New Concord	-	-	7	12.7	11	12.0
Painesville (Lake County)	34	-	4	-	4	14.4
Rockbridge	29	10.9	1	4.35	0	-
South Zanesville	-	-	1	12.63	5	16.6
Van Wert	1	-	1	-	0	-
Willard	4	6.5	1	-	-	-
Zanesville	-	-	-	-	-	-

* All beetles caught in previously treated area. No soil treating required.
 ** Captures consisted of isolated, single beetles only. No soil treating required.

* First Record

DDT-250 acres were treated with DDT on an experimental basis at Blowing Rock, N. C.

(T) Soil treating planned for Spring 1946; all other soil treatments listed have been completed.

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1943 - 1946

State and City	Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 and Spring 1944 (Acres)	Japanese Beetles Trapped 1944 (Number)	Soil Treatments Fall 1944 and Spring 1945 (Acres)	Japanese Beetles Trapped 1945 (Number)	Soil Treatments Fall 1945 or Proposed for Spring 1946 (Acres)
SOUTH CAROLINA						
Florence	76	-	**2	-	-	-
Greenville	20	-	47	-	25	-
TENNESSEE						
Bristol	5	1.15	**1	-	-	-
Kingsport	5	6.85	0	-	-	-
Mountain City	-	-	6	1.75	-	-
VIRGINIA						
*Alta Vista	-	-	-	-	9	7.7
Bristol	24	2.0	**2	-	-	-
Clifton Forge	-	-	-	-	16	12.0 (T)
*Covington	-	-	-	-	83	18.0 (T)
Dayton	-	-	-	-	4	-
Harrisonburg	22	-	* 11	-	2	-
Lexington	23	4.7	0	-	-	-
Luray	3	-	0	-	-	-
Lynchburg	25	-	0	-	15	-
Waynesboro	10	6.2	0	-	-	-
Woodstock	19	8.7	0	-	-	-
*Wytheville	-	-	-	-	4	4.2

* All Beetles caught in previously treated area. No soil treating required.

** Captures consisted of isolated, single beetles only. No soil treating required.

First Record

DDT-250 acres were treated with DDT on an experimental basis at Blowing Rock, N. C.

(T) Soil treating planned for Spring 1946; all other soil treatments listed have been completed.

STATE SUMMARY OF SOIL TREATMENTS

State	Fall 1943 and Spring 1944	Fall 1944 and Spring 1945	Fall 1945 or Planned for Spring 1946
Florida	-	7.5	-
Georgia	5.5	2.7	7.3
Illinois	177.0	223.25	62.45
Indiana	67.52	193.0	19.2
Michigan	148.5	89.2	177.1
Missouri	13.0	3.49	7.7
New York	72.9	65.83	62.45
North Carolina	143.0	108.0	44.6
Ohio	233.3	290.68	132.55
South Carolina	-	-	-
Tennessee	8.0	1.75	-
Virginia	21.7	-	41.9
	890.42	985.40	555.25